



Physics: RIASEC Classroom Connections

These examples of career connections across RIASEC themes help educators get started so they can further customize RIASEC-aligned examples for their content. RIASEC themes help students name and claim their interests and explore future options. Teachers who use the RIASEC framework and include real-world examples as part of regular instruction improve engagement, relevance, and purpose.

Realistic (R)

- Mechanical Engineer: Discuss the application of physics in designing machinery and equipment, focusing on mechanical principles and material science.
- Electrician: Explore the practical use of electromagnetism in electrical wiring and systems, emphasizing hands-on skills and problem-solving.

Investigative (I)

- Astrophysicist: Inspire students with the quest to understand the universe, discussing how physics drives the exploration of galaxies, stars, and planets.
- Materials Scientist: Highlight the role of physics in discovering and developing new materials with unique properties for technology and industry.

Artistic (A)

- Architectural Designer: Connect physics with the art of designing buildings, focusing on the importance of structural integrity and environmental considerations.
- Science Communicator: Discuss how blending physics knowledge with creativity can help explain complex concepts to the public through various media.

Social (S)

- Science Educator: Emphasize the impact of teaching physics on inspiring future scientists and engineers.
- Environmental Advocate: Explore how physics principles are applied in environmental conservation and sustainability efforts, promoting social responsibility.

Enterprising (E)

- Technology Entrepreneur: Inspire students with examples of how physics innovations lead to new businesses and technological breakthroughs.
- Project Manager in Engineering: Discuss the leadership and organizational skills needed to guide physics-based projects to success.

Conventional (C)

- Quality Assurance Technician: Highlight the importance of physics in ensuring products meet specific standards and safety requirements.
- Data Analyst in Physics Research: Explore the role of analyzing and interpreting data in scientific studies, emphasizing attention to detail and precision.

Know yourself. Develop your talents. Weigh your options. Dream big!